Helicopter 9 Pin Connectors

#1. Two wire type connectors (remote hook, bucket, helitorch and seeders)

  - Aircraft ground
  - +28 VDC (bucket/hook open & torch/seeder on)

#2. Three wire type connectors with Additional Telemetry Unit (ATU) support (remote hook, bucket, helitorch and seeders)

  - Aircraft ground
  - +28 VDC (bucket/hook open & torch/seeder on)
  - ATU bucket ground connection

Connectors on helicopters shall be secured to the airframe by a wire lanyard or other acceptable method. Any method must ensure the connector's electrical wiring shall not carry any physical load when the connector is disconnected.

Mating connectors on buckets, remote hook, etc., must have the threaded locking ring removed.

Power to the Helicopter 9 Pin Connector typically requires a 50 ampere circuit breaker (see contract specifications)

Parts for Helicopter 9 Pin Connectors

<table>
<thead>
<tr>
<th>Connector on helicopter:</th>
<th>In-line type</th>
<th>MS3101E24-11S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulkhead type</td>
<td>MS3102E24-11S</td>
<td></td>
</tr>
<tr>
<td>Mating connector (on device)</td>
<td>MS3107B24-11P</td>
<td></td>
</tr>
<tr>
<td>Dust cap for Helicopter connector (optional)</td>
<td>MS25043-24D</td>
<td></td>
</tr>
<tr>
<td>Dust cap for Mating connector (optional)</td>
<td>MS25042-24D</td>
<td></td>
</tr>
</tbody>
</table>

Auxiliary 3 Pin Power Source Connector (AUX)

Connector used as a general power source for a wide range of equipment. Only two pins shall be operational.

  - A +28 VDC (used on 28 volt aircraft only)
  - B Aircraft ground
  - C +14 VDC (used on 14 volt aircraft only)

Each AUX connector shall have its own dedicated circuit breaker (see contract specifications for required amperage). The amperage of the circuit breaker is typically 10 amperes in fixed wing aircraft and 5 amperes in helicopters.

Parts for AUX Connector

- AUX Connector: Bulkhead type MS3112E12-3S
- Mating connector (on device) MS3116F12-3P
- Dust cap for AUX connector (optional) MS3181-12C

FS/OAS drawings are available at: www.nifc.gov/NIICD/documents.html